

# Wabtec, Intel and SAS

Transform raw data into real-time business insight with IoT connected transportation – and unlock new levels of operational efficiency



## Act on data where it's generated, on the go – anywhere in the world

For transportation companies that command large freight and passenger fleets – from trains and rental vehicles to airplanes, ships and more – mobile assets are a treasure trove of operational information. Recent advances in the Internet of Things (IoT) make these assets even more tantalizing as a source of real-time, actionable insights – generating, analyzing and acting on data at the source.

But realizing all that potential requires hardware and software capabilities that work together seamlessly and are prepared for the punishing environments in which they'll be operating – not to mention the vast amount of data these assets generate at any given moment.

That's where Wabtec's collaboration with Intel and SAS makes all the difference. Today, Wabtec solutions – developed specifically to take on the challenges of IoT-generated data in the rail and mining industries – are changing how companies manage and optimize their mobile assets in real time. These capabilities are already having a big impact on the bottom line, helping to deploy assets efficiently and intelligently.

## IoT insight generators – powered by SAS® IoT analytics software

Do you need a proven solution for capturing and analyzing large volumes of IoT data – generated from IoT connected transportation and all other types of mobile assets spread across geographies all over the world? If so, these offerings from Wabtec, using SAS and Intel technology, deliver some of the most advanced IoT analytics capabilities available anywhere today. Here are some of the tools you'll benefit from:

- **EdgeLINC™**, an IIoT edge device and data management software platform, features an integrated event stream processing (ESP) engine from SAS.

# SAS and Our IoT Ecosystem: Built for Customer Action

Solving customers' most critical business challenges can be daunting. That's where the right team can make all the difference. The SAS Partner Program, an actively managed network of strategic partnerships, creates new avenues for delivering and implementing SAS solutions. The resulting partner ecosystem puts customers at the center of a powerful network of providers, all ready to deliver the most advanced analytics capabilities available. They bring industry- and

topic-level expertise to every engagement, giving SAS customers the full range of capabilities required to create a world-class analytics infrastructure – all running on the SAS Platform.

The result?

The ability to generate deeper insights faster to achieve the business results required to win.

- **GoLINC™**, a mobile data center loaded with sixth-generation Intel® Core™ i7 processors, hosts EdgeLINC integrated with SAS Event Stream Processing. It includes processing, wireless communication, data storage and video capabilities.
- **SAS Event Stream Processing**, which is embedded within EdgeLINC, analyzes real-time event-driven information to identify meaningful patterns and derive useful correlations on the edge and in the cloud.
- **SAS Viya®** is a key component of ESP – a cloud-enabled, in-memory analytics engine for quick, accurate and consistent results.

## How you can benefit from our collaboration

Wabtec, Intel and SAS are working together to deliver integrated IoT analytics capabilities for transportation companies that manage distributed mobile assets.

What does that mean for you?

- Run a more efficient, intelligent and connected fleet. Reduce costs by optimizing fuel consumption and control risks with real-time, context-aware location and safety intelligence.

Realizing the insight potential of the IoT in transportation requires hardware and software capabilities that work together seamlessly – and are prepared for the punishing environments in which they'll be operating, not to mention the vast amount of data these assets generate at any given moment.

- High-performance and reliability in rugged, harsh and difficult environments.
- Increased contract margins and potential new revenue capture.
- Flexibility for targeting a range of insight opportunities – not a predetermined set of data tasks.
- More effective, streamlined regulatory compliance efforts using current data.
- Improved and optimized operations planning with real-time predictive and preventive maintenance based on live data.
- Improved supply chain operations with real-time visibility into connected fleet and cargo locations and accurate real-time geospatial awareness – enabling improved delivery estimates.

- Advanced data management, device management and secure system management capabilities to gain the competitive edge and drive business value.
- Enable efficient remote management of computing platforms with Intel processors working with proven tools and methods.
- Intel processors are designed to enable efficient remote management of the computing platform using proven tools and methods. GoLINC extends these advantages.

## Let's talk

Want to know more about how Wabtec, Intel and SAS support IoT connected transportation? Together, we offer a comprehensive edge device life cycle management platform to drive significant improvements in asset performance and operational efficiency – all supported by IoT connectivity, data flow management, device management and streaming analytics at the edge and the back office.

To find out how we can put it to work for you, please contact [Patrick Hawthorn](#) at SAS.

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